

NOT MEASUREMENT
SENSITIVE

MIL-PRF-55182G
SUPPLEMENT 1
9 June 1997

PERFORMANCE SPECIFICATION

RESISTORS, FIXED, FILM, NONESTABLISHED RELIABILITY, ESTABLISHED RELIABILITY, AND SPACE LEVEL, GENERAL SPECIFICATION FOR

This supplement forms a part of MIL-PRF-55182G, dated 9 June 1997.

PERFORMANCE SPECIFICATIONS

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|------------------------------|---|
| MIL-PRF-55182/1 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR55. <u>1/</u> |
| MIL-PRF-55182/2 <u>2/</u> | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR57. <u>1/</u> |
| MIL-PRF-55182/3 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR60. <u>1/</u> |
| MIL-PRF-55182/5 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR65. <u>1/</u> |
| MIL-PRF-55182/6 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR70. <u>1/</u> |
| MIL-PRF-55182/7 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR50. <u>1/</u> |
| MIL-PRF-55182/9 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNC90. <u>1/</u> |
| MIL-PRF-55182/10 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR75. <u>1/</u> |
| MIL-R-55182/11(EC) <u>3/</u> | - Resistors, Fixed, Film, Established Reliability, Style RNR51. <u>1/</u> |
| MIL-R-55182/12(EC) <u>3/</u> | - Resistors, Fixed, Film, Established Reliability, Style RNR56. <u>1/</u> |
| MIL-PRF-55182/13 | - Resistors, Fixed, Film, Non-Established Reliability, Established Reliability, and Space Level, Style RNR77. <u>1/</u> |

1/ Third letter is variable, dependent upon lead material or capability.

2/ Inactive for new design after 8 July 1970.

3/ Inactive for new design after 19 November 1985.

AMSC N/A
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TABLE I. Performance characteristics.

| Maximum resistance temperature characteristic (see 3.15): Percent per/°C Part/million/°C | C | H | E | J | K | Y |
|---|--|--|--|--|--|--|
| | Hermetically sealed (see 3.12) | Nonhermetically sealed (see 3.12.1 and 6.4) | Hermetically sealed (see 3.12) | Nonhermetically sealed (see 3.12.1 and 6.4) | Nonhermetically sealed (see 3.12.1 and 6.4) | Nonhermetically sealed (see 3.12.1 and 6.4) (RNC90) |
| Maximum ambient temperature at rated wattage (see figure 2) | ±0.005 ±50 +125°C | ±0.005 ±50 +125°C | ±0.0025 ±25 +125°C | ±0.0025 ±25 +125°C | ±0.010 ±100 MIL-PRF-55182G SUPPLEMENT 1 | ±0.0005 ±5 5/ +125°C |
| Maximum ambient temperature at zero derating (see figure 2) | +175°C | +175°C | +175°C | +175°C | +175°C | +175°C |
| Power rating in watts and maximum dc or rms voltage: 1/ 6/ Style RNR50 Style RNR55 Style RNR57 g/ Style RNR60 Style RNR65 Style RNR70 Style RNR75 Style RNR77 Style RNR90 | NA 2/ 1/10 W, 200 V 1/8 W, 250 V 1/8 W, 250 V 1/4 W, 300 V 1/2 W, 350 V 1.0 W, 750 V 1.0 W, 750 V --- | 1/20 W, 200 V 1/10 W, 200 V NA 2/ 1/8 W, 250 V 1/4 W, 300 V 1/2 W, 350 V 1.0 W, 750 V --- | NA 2/ 1/10 W, 200 V 1/8 W, 250 V 1/8 W, 250 V 1/4 W, 300 V 1/2 W, 350 V 1.0 W, 750 V --- | 1/20 W, 200 V 1/10 W, 200 V NA 2/ 1/8 W, 250 V 1/4 W, 300 V 1/2 W, 350 V 1.0 W, 750 V --- | 1/20 W, 200 V 1/10 W, 200 V NA 2/ 1/8 W, 250 V 1/4 W, 300 V 1/2 W, 350 V 1.0 W, 750 V --- | 3/10 W, 300 V |
| Maximum percent change in resistance ±: 3/ Thermal shock (see 3.8) 4/ 1/ Overload (see 3.9) 4/ Low temperature operation (see 3.16) Low temperature storage (see 3.29) Terminal strength (see 3.17) Dielectric withstanding voltage (see 3.18) Resistance to soldering heat (see 3.20) Moisture resistance (see 3.21) Shock, specified pulse (see 3.22) Vibration, high frequency (see 3.23) Life (see 3.24) High temperature exposure (see 3.25) Insulation resistance (see 3.19) Insulation resistance wet (see 3.19) | 0.2 0.15 0.15 0.2 0.15 0.1 0.2 0.2 0.2 (see 3.24) 2.0 10,000 megohms minimum 100 megohms minimum | 0.2 0.15 0.15 0.2 0.15 0.1 0.4 0.2 0.2 (see 3.24) 2.0 10,000 megohms minimum 100 megohms minimum | 0.2 0.15 0.15 0.2 0.15 0.1 0.2 0.2 0.2 (see 3.24) 2.0 10,000 megohms minimum 100 megohms minimum | 0.2 0.15 0.15 0.2 0.15 0.1 0.4 0.2 0.2 (see 3.24) 2.0 10,000 megohms minimum 100 megohms minimum | 0.2 0.15 0.15 0.2 0.15 0.1 0.4 0.2 0.2 (see 3.24) 2.0 10,000 megohms minimum 100 megohms minimum | 0.05 0.05 0.05 0.02 0.02 0.02 0.05 0.01 0.02 (see 3.24) 0.5 10,000 megohms minimum 100 megohms minimum |
| Resistance tolerance ± percent (see table V) | 1.0, 0.5, 0.1 as applicable (see 3.1) | 1.0, 0.5 | 0.005, 0.01, 0.05, 0.1, 1.0, 0.5 |

1/ Third letter is dependent upon lead material or capability.

2/ NA: Not applicable.

3/ Where total resistance change is 1 percent or less, it shall be considered as ±(percent +0.01 ohm).

4/ Shall not exceed 0.2 percent for these two tests combined.

5/ Maximum resistance-temperature characteristic = ±5 ppm/°C (±.0005 percent per degree C) up to and including +125°C and +10 ppm/°C (+.001 percent per degree C).

6/ For +70°C power rating, see 3.1.

7/ Requirement paragraph numbers noted in parenthesis are not applicable to characteristic Y. For applicable requirement paragraph numbers, see MIL-PRF-55182/9.

8/ Inactive for new design.

MIL-PRF-55182G
SUPPLEMENT 1

Preparing activity:
Army - CR

Agent:
DLA - CC

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